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(54) OPTICAL RECORDING MEDIUM

(57)Abstract:

PURPOSE: To enable recording and reproduction with light of wavelength λ_1 in the region of 770-830nm and to enable reproduction even with light of wavelength λ_2 in the region of 630-690nm.

CONSTITUTION: This optical recording medium has a half mirror layer, a recording layer contg. a dye and a reflecting layer on the transparent substrate. The refractive index n_1 and extinction coefft. k_1 of the recording layer to light of wavelength λ_1 in the region of 770-830nm are ≥ 1.8 and 0.04-0.15, respectively, and the refractive index n_2 and extinction coefft. k_2 of the recording layer to light of wavelength λ_2 in the region of 630-690nm are ≥ 1.1 and 0.04-0.6, respectively. The reflectance of this medium measured through the substrate is $\geq 65\%$ to light of the wavelength λ_1 and $\geq 15\%$ to light of the wavelength λ_2 .

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